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L2	4	predetermin\$3 near time and sequence and attribute\$1 near value\$1 same (replicat\$5 or synchronizat\$5) and @ad<"20011205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/03 17:38
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L5	3	4 and predetermin\$5 near time and sequence	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/03 17:43
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L8	186	conflicts same replication\$1 and @ad<"20011205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/03 17:44
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L10	13	"5737601".pn. "5745753".pn. "5806075".pn. "5864654".pn. "5878434".pn. "6081832".pn. "6202085".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/03 17:47
L11	0	10 and insufficient near value\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/03 17:48

L12	0	8 and insufficient near value\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/03 17:48
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L14	149	sequence\$1 same attribute\$1 same replication\$1 and @ad<"20011205"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/03 17:49
L15	149	14 bpredetermin\$3 near attribute\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/02/03 17:49
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1 [Distributed systems - programming and management: On remote procedure call](#)

Patricia Gomes Soares

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**

Full text available: [pdf\(4.52 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ...

2 [Query evaluation techniques for large databases](#)

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: [pdf\(9.37 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality



3 [Experience Using Multiprocessor Systems—A Status Report](#)

Anita K. Jones, Peter Schwarz



June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2

Full text available: [pdf\(4.43 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



- 4 Compiling nested data-parallel programs for shared-memory multiprocessors 
Siddhartha Chatterjee
July 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 15 Issue 3
Full text available:  [pdf\(4.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: compilers, data parallelism, shared-memory multiprocessors

- 5 Managing periodically updated data in relational databases: a stochastic modeling approach 
Avigdor Gal, Jonathan Eckstein
November 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 6
Full text available:  [pdf\(466.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Recent trends in information management involve the periodic transcription of data onto secondary devices in a networked environment, and the proper scheduling of these transcriptions is critical for efficient data management. To assist in the scheduling process, we are interested in modeling *data obsolescence*, that is, the reduction of consistency over time between a relation and its replica. The modeling is based on techniques from the field of stochastic processes, and provides several ...

Keywords: Data obsolescence, database replication management, obsolescence cost, stochastic modeling

- 6 Mobility: Flexible on-device service object replication with replets 
Dong Zhou, Nayeem Islam, Ali Ismael
May 2004 **Proceedings of the 13th international conference on World Wide Web**
Full text available:  [pdf\(414.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An increasingly large amount of such applications employ service objects such as Servlets to generate dynamic and personalized content. Existing caching infrastructures are not well suited for caching such content in mobile environments because of disconnection and weak connection. One possible approach to this problem is to replicate Web-related application logic to client devices. The challenges to this approach are to deal with client devices that exhibit huge divergence in resource availabil ...

Keywords: capability, preference, reconfiguration, replication, service, synchronization

- 7 A security architecture for fault-tolerant systems 
Michael K. Reiter, Kenneth P. Birman, Robbert van Renesse
November 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 4
Full text available:  [pdf\(2.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Process groups are a common abstraction for fault-tolerant computing in distributed systems. We present a security architecture that extends the process group into a security abstraction. Integral parts of this architecture are services that securely and fault tolerantly support cryptographic key distribution. Using replication only when necessary, and introducing novel replication techniques when it was necessary, we have constructed these

services both to be easily defensible against atta ...

Keywords: key distribution, multicast, process groups

8 Total order broadcast and multicast algorithms: Taxonomy and survey

Xavier Défago, André Schiper, Péter Urbán

December 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 4

Full text available:  [pdf\(544.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Total order broadcast and multicast (also called atomic broadcast/multicast) present an important problem in distributed systems, especially with respect to fault-tolerance. In short, the primitive ensures that messages sent to a set of processes are, in turn, delivered by all those processes in the same total order.

Keywords: Distributed systems, agreement problems, atomic broadcast, atomic multicast, classification, distributed algorithms, fault-tolerance, global ordering, group communication, message passing, survey, taxonomy, total ordering

9 Reliable communication in the presence of failures

Kenneth P. Birman, Thomas A. Joseph

January 1987 **ACM Transactions on Computer Systems (TOCS)**, Volume 5 Issue 1


Full text available:  [pdf\(2.62 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The design and correctness of a communication facility for a distributed computer system are reported on. The facility provides support for fault-tolerant process groups in the form of a family of reliable multicast protocols that can be used in both local- and wide-area networks. These protocols attain high levels of concurrency, while respecting application-specific delivery ordering constraints, and have varying cost and performance that depend on the degree of ordering ...

10 AGM: a dataflow database machine

Lubomir Bic, Robert L. Hartmann

March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1

Full text available:  [pdf\(2.69 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In recent years, a number of database machines consisting of large numbers of parallel processing elements have been proposed. Unfortunately, there are two main limitations in database processing that prevent a high degree of parallelism; these are the available I/O bandwidth of the underlying storage devices and the concurrency control mechanisms necessary to guarantee data integrity. The main problem with conventional approaches is the lack of a computational model capable of utilizing th ...

11 System design: A metrics system for quantifying operational coupling in embedded computer control systems

DeJiu Chen, Martin Törngren

September 2004 **Proceedings of the fourth ACM international conference on Embedded software**

Full text available:  [pdf\(430.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


One central issue in system structuring and quality prediction is the interdependencies of system modules. This paper proposes a novel technique for determining the operational coupling in embedded computer control systems. It allows us to quantify dependencies

between modules, formed by different kinds of relationships in a solution, and therefore promotes a more systematic approach to the reasoning about modularity. Compared to other existing coupling metrics, which are often implementation-te ...

Keywords: coupling measure, modularization and components, system functions

12 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo
July 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 23 Issue 4

Full text available:  [pdf\(1.95 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

13 Concurrency control in advanced database applications

Naser S. Barghouti, Gail E. Kaiser
September 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 3

Full text available:  [pdf\(4.69 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: advanced database applications, concurrency control, cooperative transactions, design environments, extended transaction models, long transactions, object-oriented databases, relaxing serializability

14 Models and languages for parallel computation

David B. Skillicorn, Domenico Talia
June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Full text available:  [pdf\(299.05 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


We survey parallel programming models and languages using six criteria to assess their suitability for realistic portable parallel programming. We argue that an ideal model should be easy to program, should have a software development methodology, should be architecture-independent, should be easy to understand, should guarantee performance, and should provide accurate information about the cost of programs. These criteria reflect our belief that developments in parallelism must be driven b ...

Keywords: general-purpose parallel computation, logic programming languages, object-oriented languages, parallel programming languages, parallel programming models, software development methods, taxonomy

15 On the use of distributed joins for processing interlibrary loans

J. Michael Bennett, P. Neo

April 1992 **Proceedings of the 1992 ACM/SIGAPP Symposium on Applied computing: technological challenges of the 1990's**


Full text available:  [pdf\(1.09 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

16 Query Optimization in Database Systems

Matthias Jarke, Jurgen Koch

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2


Full text available:  [pdf\(2.84 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Federated database systems for managing distributed, heterogeneous, and autonomous databases

Amit P. Sheth, James A. Larson

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Full text available:  [pdf\(5.02 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A federated database system (FDBS) is a collection of cooperating database systems that are autonomous and possibly heterogeneous. In this paper, we define a reference architecture for distributed database management systems from system and schema viewpoints and show how various FDBS architectures can be developed. We then define a methodology for developing one of the popular architectures of an FDBS. Finally, we discuss critical issues related to developing and operating an FDBS.

18 Concurrent compacting garbage collection of a persistent heap

James O'Toole, Scott Nettles, David Gifford

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles**, Volume 27 Issue 5

Full text available:  [pdf\(1.50 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a replicating garbage collector for a persistent heap. The garbage collector cooperates with a transaction manager to provide safe and efficient transactional storage management. Clients read and write the heap in primary memory and can commit or abort their write operations. When write operations are committed they are preserved in stable storage and survive system failures. Clients can freely access the heap during garbage collection because the collector concurrently builds a comp ...

19 Distributed object implementations for interactive applications

Vijaykumar Krishnaswamy, Ivan B. Ganey, Jaideep M. Dharap, Mustaque Ahamad

April 2000 **IFIP/ACM International Conference on Distributed systems platforms**

Full text available:  [pdf\(175.94 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

As computers become pervasive in the home and community and homes become better connected, new applications will be deployed over the Internet. Interactive Distributed Applications involve users in multiple locations, across a wide area network, who interact and cooperate by manipulating shared objects. A timely response to user actions, which can potentially update the state of the objects, is an important requirement of interactive applications. Because of the inherent heterogeneity of the ...


20

Space-time scheduling of instruction-level parallelism on a raw machine

Walter Lee, Rajeev Barua, Matthew Frank, Devabhaktuni Srikrishna, Jonathan Babb, Vivek

Sarkar, Saman Amarasinghe

October 1998 **Proceedings of the eighth international conference on Architectural support for programming languages and operating systems**, Volume 33, 32
Issue 11, 5

Full text available:  [pdf \(1.79 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)





Increasing demand for both greater parallelism and faster clocks dictate that future generation architectures will need to decentralize their resources and eliminate primitives that require single cycle global communication. A Raw microprocessor distributes all of its resources, including instruction streams, register files, memory ports, and ALUs, over a pipelined two-dimensional mesh interconnect, and exposes them fully to the compiler. Because communication in Raw machines is distributed, com ...

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1 [Policy management using access control spaces](#)

Trent Jaeger, Xiaolan Zhang, Fidel Cacheda

August 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6
Issue 3

Full text available: pdf(360.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present the concept of an *access control space* and investigate how it may be useful in managing access control policies. An access control space represents the permission assignment state of a subject or role. For example, the set of permissions explicitly assigned to a role defines its *specified* subspace, and the set of constraints precluding assignment to that role defines its *prohibited* subspace. In analyzing these subspaces, we identify two problems: (1) often a signi ...

Keywords: Access control models, authorization mechanisms, role-based access control

2 [Compiling nested data-parallel programs for shared-memory multiprocessors](#)

Siddhartha Chatterjee

July 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 15 Issue 3

Full text available: pdf(4.17 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: compilers, data parallelism, shared-memory multiprocessors

3 [Query evaluation techniques for large databases](#)

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database


systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

4 Status report of the graphic standards planning committee of ACM/SIGGRAPH: State-of-the-art of graphic software packages

Computer Graphics staff

September 1977 **ACM SIGGRAPH Computer Graphics**, Volume 11 Issue 3

Full text available:  [pdf\(9.03 MB\)](#)


Additional Information: [full citation](#), [references](#)

5 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo

July 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 23 Issue 4

Full text available:  [pdf\(1.95 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

6 Intelligent database caching through the use of page-answers and page-traces

Nabil Kamel, Roger King

December 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 4

Full text available:  [pdf\(3.05 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper a new method to improve the utilization of main memory systems is presented. The new method is based on prestoring in main memory a number of query answers, each evaluated out of a single memory page. To this end, the ideas of page-answers and page-traces are formally described and their properties analyzed. The query model used here allows for selection, projection, join, recursive queries as well as arbitrary combinations. We also show how to apply the approach under update ...

Keywords: artificial intelligence, databases, page access

7 The model-assisted global query system for multiple databases in distributed enterprises

Waiman Cheung, Cheng Hsu

October 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 4

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  pdf(697.73 KB)


[terms](#)

Today's enterprises typically employ multiple information systems, which are independently developed, locally administered, and different in logical or physical designs. Therefore, a fundamental challenge in enterprise information management is the sharing of information for enterprise users across organizational boundaries; this requires a global query system capable of providing on-line intelligent assistance to users. Conventional technologies, such as schema-based query languages and ha ...

8 [Concurrency control in advanced database applications](#) 

Naser S. Barghouti, Gail E. Kaiser

September 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 3

Full text available:  pdf(4.69 MB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: advanced database applications, concurrency control, cooperative transactions, design environments, extended transaction models, long transactions, object-oriented databases, relaxing serializability

9 [CCG: a prototype coagulating code generator](#) 

W. G. Morris

May 1991 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1991 conference on Programming language design and implementation**, Volume 26 Issue 6

Full text available:  pdf(1.36 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 [Logic-based approach to semantic query optimization](#) 

Upen S. Chakravarthy, John Grant, Jack Minker

June 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 2

Full text available:  pdf(3.46 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The purpose of semantic query optimization is to use semantic knowledge (e.g., integrity constraints) for transforming a query into a form that may be answered more efficiently than the original version. In several previous papers we described and proved the correctness of a method for semantic query optimization in deductive databases couched in first-order logic. This paper consolidates the major results of these papers emphasizing the techniques and their applicability for optimizing rel ...

11 [Three-dimensional medical imaging: algorithms and computer systems](#) 

M. R. Stytz, G. Frieder, O. Frieder

December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Full text available:  pdf(7.36 MB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

12 [Automating the lexical and syntactic design of graphical user interfaces: the UofA* UIMS](#) 

Gurminder Singh, Mark Green

July 1991 **ACM Transactions on Graphics (TOG)**, Volume 10 Issue 3


Full text available:  pdf(3.82 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

13 [High-level programming features for improving the efficiency of a relational database system](#) 

Reind P. Van de Riet, Martin L. Kersten, Wiebren de Jonge, Anthony I. Wasserman

September 1981 **ACM Transactions on Database Systems (TODS)**, Volume 6 Issue 3

Full text available:  pdf(1.72 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper discusses some high-level language programming constructs that can be used to manipulate the relations of a relational database system efficiently. Three different constructs are described: (1) tuple identifiers that directly reference tuples of a relation; (2) cursors that may iterate over the tuples of a relation; and (3) markings, a form of temporary relation consisting of a set of tuple identifiers. In each case, attention is given to syntactic, semantic, and implementation c ...

Keywords: PLAIN, markings, programming languages, programming methodology, relational algebra, relational database management

14 [Constraints: Resolving constraint conflicts](#) 

Trent Jaeger, Reiner Sailer, Xiaolan Zhang

June 2004 **Proceedings of the ninth ACM symposium on Access control models and technologies**

Full text available:  pdf(122.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we define *constraint conflicts* and examine properties that may aid in guiding their resolution. A constraint conflict is an inconsistency between the access control policy and the constraints specified to limit that policy. For example, a policy that permits a high integrity subject to access low integrity data is in conflict with a Biba integrity constraint. Constraint conflicts differ from typical policy conflicts in that constraints are never supposed to be violated. Tha ...

Keywords: access control models, constraint models, policy design

15 [Inverted files versus signature files for text indexing](#) 

Justin Zobel, Alistair Moffat, Kotagiri Ramamohanarao

December 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 4

Full text available:  pdf(243.62 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Two well-known indexing methods are inverted files and signature files. We have undertaken a detailed comparison of these two approaches in the context of text indexing, paying particular attention to query evaluation speed and space requirements. We have examined their relative performance using both experimentation and a refined approach to modeling of signature files, and demonstrate that inverted files are distinctly superior to signature files. Not only can inverted files be used to ev ...

Keywords: indexing, inverted files, performance, signature files, text databases, text indexing

Query Optimization in Database Systems

Matthias Jarke, Jurgen Koch

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Full text available:  pdf(2.84 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



17 Constraints for the web

Alan Borning, Richard Lin, Kim Marriott

November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available:  pdf(1.65 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



18 Run-time support for distributed sharing in safe languages

Y. Charlie Hu, Weimin Yu, Alan Cox, Dan Wallach, Willy Zwaenepoel

February 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 1

Full text available:  pdf(530.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a new run-time system that supports object sharing in a distributed system. The key insight in this system is that a handle-based implementation of such a system enables efficient and transparent sharing of data with both fine- and coarse-grained access patterns. In addition, it supports efficient execution of garbage-collected programs. In contrast, conventional distributed shared memory (DSM) systems are limited to providing only one granularity with good performance, and have exper ...



Keywords: Communications, distributed sharing, memory consistency, safe programming languages



19 Special issue on natural language generation: Collaborative response generation in planning dialogues

Jennifer Chu-Carroll, Sandra Carberry

September 1998 **Computational Linguistics**, Volume 24 Issue 3

Full text available:  pdf(3.45 MB)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
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In collaborative planning dialogues, the agents have different beliefs about the domain and about each other; thus, it is inevitable that conflicts arise during the planning process. In this paper, we present a plan-based model for response generation during collaborative planning, based on a recursive *Propose-Evaluate-Modify* framework for modeling collaboration. We focus on identifying strategies for content selection when 1) the system initiates *information-sharing* to gather fur ...



20 View management in multimedia databases

K. Selçuk Candan, Eric Lemar, V. S. Subrahmanian

July 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 2

Full text available:  pdf(322.82 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Though there has been extensive work on multimedia databases in the last few years, there is no prevailing notion of a multimedia view, nor there are techniques to create, manage, and maintain such views. Visualizing the results of a dynamic multimedia query or materializing a dynamic multimedia view corresponds to assembling and delivering an interactive multimedia presentation in accordance with the visualization specifications. In this paper, we suggest that a non-interactive multimedia prese ...



Keywords: Interactivity, Multimedia databases, Prefetching, Result visualization/presentation, View management

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1 [Query evaluation techniques for large databases](#)

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: [pdf\(9.37 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for manipulating large sets and sequences will be required to provide acceptable performance. The ad and extensible database systems will not solve this problem. On the contrary, modern data model problem: In order to manipulate large sets of complex objects as efficiently as today's database systems simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database object-oriented database systems, operator model of parallelization, parallel algorithms, relational matching algorithms, sort-hash duality

2 [Compiling nested data-parallel programs for shared-memory multiprocessors](#)

Siddhartha Chatterjee

July 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 15 I

Full text available: [pdf\(4.17 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: compilers, data parallelism, shared-memory multiprocessors

3 [Parallel execution of prolog programs: a survey](#)

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo

July 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 2

Full text available: [pdf\(1.95 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Since the early days of logic programming, researchers in the field realized the potential for exploiting parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterministic transparency, among other characteristics, make logic programs interesting candidates for obtaining parallel execution. At the same time, the fact that the typical applications of logic programming for computation ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, pr

4 Mobility: Flexible on-device service object replication with replets

Dong Zhou, Nayeem Islam, Ali Ismael

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available:  pdf(414.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


An increasingly large amount of such applications employ service objects such as Servlets to generate personalized content. Existing caching infrastructures are not well suited for caching such content because of disconnection and weak connection. One possible approach to this problem is to replicate application logic to client devices. The challenges to this approach are to deal with client devices that diverge in resource availability ...

Keywords: capability, preference, reconfiguration, replication, service, synchronization

5 Concurrency control in advanced database applications

Naser S. Barghouti, Gail E. Kaiser

September 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 3

Full text available:  pdf(4.69 MB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: advanced database applications, concurrency control, cooperative transactions, design, extended transaction models, long transactions, object-oriented databases, relaxing serializability

6 Query Optimization in Database Systems

Matthias Jarke, Jurgen Koch

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2


Full text available:  pdf(2.84 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on C**

Full text available:  pdf(4.21 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process event tracers are often used to obtain a better understanding of the execution of the application. The visualization tool is an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repetitive and trivial communication ...

8 High-latency, low-bandwidth windowing in the Jupiter collaboration system

David A. Nichols, Pavel Curtis, Michael Dixon, John Lamping

December 1995 **Proceedings of the 8th annual ACM symposium on User interface and software**

Full text available:  pdf(1.03 MB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: CSCW, UIMS, groupware toolkits, optimistic concurrency control, window toolkits

9 Automatic data layout for distributed-memory machines

Ken Kennedy, Ulrich Kremer

July 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 2

Full text available:  pdf(633.20 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)


The goal of languages like Fortran D or High Performance Fortran (HPF) is to provide a simple yet independent parallel programming model. After the algorithm selection, the data layout choice is a challenge in writing an efficient program in such languages. The performance of a data layout depends on the compilation system, the target machine, the problem size, and the number of available processors of a good layout extremely ...

Keywords: high performance Fortran

10 Experience Using Multiprocessor Systems---A Status Report

Anita K. Jones, Peter Schwarz

June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2


Full text available:  pdf(4.48 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 A Survey of Techniques for Synchronization and Recovery in Decentralized Computer Systems

Walter H. Kohler

June 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 2


Full text available:  pdf(3.33 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 Software pipelining

Vicki H. Allan, Reese B. Jones, Randall M. Lee, Stephen J. Allan

September 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 3

Full text available:  pdf(4.72 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Utilizing parallelism at the instruction level is an important way to improve performance. Because execution dominates total execution time, a large body of optimizations focuses on decreasing the iteration. Software pipelining is a technique that reforms the loop so that a faster execution rate is executed in overlapped fashion to increase parallelism. Let $\{ABC\}^n$

Keywords: instruction level parallelism, loop reconstruction, optimization, software pipelining

13 Design and evaluation of a conit-based continuous consistency model for replicated services

Haifeng Yu, Amin Vahdat

August 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 3

Full text available:  pdf(406.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)


The tradeoffs between consistency, performance, and availability are well understood. Traditionally replicated systems have been forced to choose from either strong consistency guarantees or none explores the semantic space between traditional strong and optimistic consistency models for replication. We argue that an important class of applications can tolerate relaxed consistency, but benefit from low rate of inconsistent access ...

Keywords: Conit, consistency model, continuous consistency, network services, relaxed consistency

14

Decentralized storage systems: Taming aggressive replication in the Pangaea wide-area file

Yasushi Saito, Christos Karamanolis, Magnus Karlsson, Mallik Mahalingam
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue 51

Full text available:  [pdf\(1.93 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#)

Pangaea is a wide-area file system that supports data sharing among a community of widely distributed on a symmetrically decentralized infrastructure that consists of commodity computers provided by Computers act autonomously to serve data to their local users. When possible, they exchange data to improve the system's overall performance, availability, and network economy. This approach is re-creating a replica of a file w ...

15 Distributed systems - programming and management: On remote procedure call

Patrícia Gomes Soares

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on C - Volume 2**

Full text available:  [pdf\(4.52 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Paradigms that have been proposed to enlarge its suitability, are studied. The main contributions of standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of use today and of goals for the future ...

16 A security architecture for fault-tolerant systems

Michael K. Reiter, Kenneth P. Birman, Robbert van Renesse

November 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 4

Full text available:  [pdf\(2.50 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Process groups are a common abstraction for fault-tolerant computing in distributed systems. We present an architecture that extends the process group into a security abstraction. Integral parts of this architecture securely and fault tolerantly support cryptographic key distribution. Using replication only when necessary, we have constructed these services both to be secure and to be efficient against attacks ...

Keywords: key distribution, multicast, process groups

17 Managing multiple and distributed ontologies on the Semantic Web

A. Maedche, B. Motik, L. Stojanovic

November 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 6

Full text available:  [pdf\(375.18 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


In traditional software systems, significant attention is devoted to keeping modules well separated with respect to functionality, thus ensuring that changes in the system are localized to a handful of modules. The key method in reaching that goal. Ontology-based systems on the Semantic Web are just a special case of such systems, so the same principles apply. In this article, we present an integrated framework for managing distributed ontologies ...

Keywords: Multiple and distributed ontologies, Ontology evolution

18 Distributed file systems: concepts and examples

Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Full text available:  [pdf\(5.33 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)


The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to access files as if they were on a single system.

storage resources by using a common file system. A typical configuration for a DFS is a collection of mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system on the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure of both data and control ...

19 Programming languages for distributed computing systems

Henri E. Bal, Jennifer G. Steiner, Andrew S. Tanenbaum

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available:  pdf (6.50 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

When distributed systems first appeared, they were programmed in traditional sequential languages. The addition of a few library procedures for sending and receiving messages. As distributed applications became commonplace and more sophisticated, this ad hoc approach became less satisfactory. Researchers began designing new programming languages specifically for implementing distributed applications. This paper describes their history, their underlying principles ...

20 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian E. Borriello, Steven Gribble, David Wetherall

November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Full text available:  pdf (1.82 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Pervasive computing provides an attractive vision for the future of computing. Computational power is everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly accomplish their tasks. For this vision to become a reality, developers must build applications that support a highly dynamic computing environment. To make the developers' task feasible, we present a system for pervasive computing, called Pervasive ...





Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, or computing, structured I/O, tuples, ubiquitous computing

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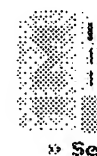
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1 Towards large-scale conflict resolution: initial results

Jung, H.; Tambe, M.; Zhang, W.; Shen, W.-M.;

MultiAgent Systems, 2000. Proceedings. Fourth International Conference on , 12 July 2000

Pages:403 - 404

[\[Abstract\]](#) [\[PDF Full-Text \(368 KB\)\]](#) IEEE CNF

2 Supporting conflict resolution in cooperative design systems

Klein, M.;

Systems, Man and Cybernetics, IEEE Transactions on , Volume: 21 , Issue: 6 , Nov.-Dec. 1991

Pages:1379 - 1390

[\[Abstract\]](#) [\[PDF Full-Text \(1160 KB\)\]](#) IEEE JNL

3 Cognitive conflict resolution: mediation analysis and strategies

Chu, P.-Y.V.; Fehling, M.R.;

Systems, Man, and Cybernetics, 1994. 'Humans, Information and Technology' 1994 IEEE International Conference on , Volume: 2 , 2-5 Oct. 1994

Pages:1553 - 1558 vol. 2

[\[Abstract\]](#) [\[PDF Full-Text \(787 KB\)\]](#) IEEE CNF

4 Design and analysis of conflict resolution algorithms via positive semidefinite programming [aircraft conflict resolution]

Jae-Hyuk Oh; Shewchun, J.M.; Feron, E.;

Decision and Control, 1997., Proceedings of the 36th IEEE Conference on , Vo 5 , 10-12 Dec. 1997

Pages:4179 - 4185 vol.5

[\[Abstract\]](#) [\[PDF Full-Text \(536 KB\)\]](#) IEEE CNF

5 Towards a theory of conflict resolution in cooperative design

Klein, M.; Lu, S.C.-Y.; Baskin, A.B.;

System Sciences, 1990., Proceedings of the Twenty-Third Annual Hawaii International Conference on , Volume: iv , 2-5 Jan. 1990

Pages:41 - 50 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(1028 KB\)\]](#) IEEE CNF

6 Protocol-based conflict resolution for finite information horizon

Inseok Hwang; Tomlin, C.;

American Control Conference, 2002. Proceedings of the 2002 , Volume: 1 , 8-May 2002

Pages:748 - 753 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(453 KB\)\]](#) IEEE CNF

7 Controller design and conflict resolution for discrete event manufacturing systems

Lewis, F.L.; Pastravanu, O.C.; Huang, H.-H.;

Decision and Control, 1993., Proceedings of the 32nd IEEE Conference on , 15 Dec. 1993

Pages:3288 - 3293 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(572 KB\)\]](#) IEEE CNF

8 Dynamic prioritized conflict resolution on multiple access broadcast networks

Martel, C.U.; Moh, W.M.; Teng-Sheng Moh;

Computers, IEEE Transactions on , Volume: 45 , Issue: 9 , Sept. 1996

Pages:1074 - 1079

[\[Abstract\]](#) [\[PDF Full-Text \(736 KB\)\]](#) IEEE JNL

9 Conflict resolution and fault-free path selection in multicast-connect cube-based networks

Abonamah, A.A.; Sibai, F.N.; Sharma, N.K.;

Computers, IEEE Transactions on , Volume: 43 , Issue: 3 , March 1994

Pages:374 - 380

[\[Abstract\]](#) [\[PDF Full-Text \(624 KB\)\]](#) IEEE JNL

10 A queueing theoretic approach to the delay analysis for the FCFS 0. conflict resolution algorithm

Polyzos, G.C.; Molle, M.L.;

Information Theory, IEEE Transactions on , Volume: 39 , Issue: 6 , Nov. 1993

Pages:1887 - 1906

[\[Abstract\]](#) [\[PDF Full-Text \(1588 KB\)\]](#) IEEE JNL

11 Cooperation and conflict resolution via negotiation among autonom

agents in noncooperative domains*Zlotkin, G.; Rosenschein, J.S.;*

Systems, Man and Cybernetics, IEEE Transactions on , Volume: 21 , Issue: 6 , Nov.-Dec. 1991

Pages:1317 - 1324

[\[Abstract\]](#) [\[PDF Full-Text \(772 KB\)\]](#) IEEE JNL**12 Probabilistic bounds in air traffic conflict resolution***Cecchi, D.; Pollini, L.; Innocenti, M.;*

American Control Conference, 2003. Proceedings of the 2003 , Volume: 6 , 4-June 2003

Pages:5388 - 5393 vol.6

[\[Abstract\]](#) [\[PDF Full-Text \(378 KB\)\]](#) IEEE CNF**13 Strategic RVSM - benefits of utilization of additional flight levels for conflict resolution during transition to domestic RVSM***Suchkov, A.; Mondoloni, S.;*

Digital Avionics Systems Conference, 2002. Proceedings. The 21st , Volume: 1 , 2002

Pages:2A3-1 - 2A3-8 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(629 KB\)\]](#) IEEE CNF**14 Conflict resolution strategy based on optimization***Tao Li; Guangleng Xiong;*

Systems, Man, and Cybernetics, 2001 IEEE International Conference on , Volume: 3 , 7-10 Oct. 2001

Pages:1789 - 1794 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(415 KB\)\]](#) IEEE CNF**15 2½D conflict resolution maneuvers for ATMS***Kosecka, J.; Tomlin, C.; Pappas, G.; Sastry, S.;*

Decision and Control, 1998. Proceedings of the 37th IEEE Conference on , Volume: 3 , 16-18 Dec. 1998

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1 SPFD-based wire removal in standard-cell and network-of-PLA circuit
 Khatri, S.P.; Sinha, S.; Brayton, R.K.; Sangiovanni-Vincentelli, A.L.;
 Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on , Volume: 23 , Issue: 7 , July 2004
 Pages:1020 - 1030

[\[Abstract\]](#) [\[PDF Full-Text \(552 KB\)\]](#) **IEEE JNL**

2 Single-stage plasma-chemical process for particulates, NO_x and SO_x simultaneous removal
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4 On removing redundancies from synchronous sequential circuits with synchronizing sequences
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5 Gradual removals in cellular PCS with constrained power control and noise

Andersin, M.; Rosberg, Z.; Zander, J.;

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6 On deletion codes

Tavory, A.; Feder, M.;

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Landis, G.A.;

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[\[Abstract\]](#) [\[PDF Full-Text \(304 KB\)\]](#) IEEE CNF

9 Improving defect removal effectiveness for software development

Leung, H.K.N.;

Software Maintenance and Reengineering, 1998. Proceedings of the Second Euromicro Conference on , 8-11 March 1998

Pages:157 - 164

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10 Recycling of printed wiring boards with mounted electronic parts

Yokoyama, S.; Iji, M.;

Electronics and the Environment, 1997. ISEE-1997., Proceedings of the 1997 International Symposium on , 5-7 May 1997

Pages:109 - 114

[\[Abstract\]](#) [\[PDF Full-Text \(876 KB\)\]](#) IEEE CNF

11 A process for removing moisture from metal surfaces and inhibiting water from readsorbing using organosilanes

Fine, S.M.; Johnson, A.D.; Langan, J.G.; Pearce, R.V.;

Advanced Semiconductor Manufacturing Conference and Workshop, 1995. ASI 95 Proceedings. IEEE/SEMI 1995 , 13-15 Nov. 1995

Pages:182

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12 Time dependence of NO_x removal rate by a corona radical shower system

Ohkubo, T.; Kanazawa, S.; Nomoto, Y.; Jen-Shih Chang; Adachi, T.;

Industry Applications Society Annual Meeting, 1994., Conference Record of the 1994 IEEE , 2-6 Oct. 1994

Pages:1570 - 1574 vol.3

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13 On multiple insertion/deletion correcting codes

Helberg, A.S.J.; Ferreira, H.C.;

Information Theory, IEEE Transactions on , Volume: 48 , Issue: 1 , Jan. 2002

Pages:305 - 308

[\[Abstract\]](#) [\[PDF Full-Text \(228 KB\)\]](#) IEEE JNL

14 Material removal mechanism in chemical mechanical polishing: the and modeling

Jianfeng Luo; Dornfeld, D.A.;

Semiconductor Manufacturing, IEEE Transactions on , Volume: 14 , Issue: 2 , 2001

Pages:112 - 133

[\[Abstract\]](#) [\[PDF Full-Text \(544 KB\)\]](#) IEEE JNL

15 Estimation and removal of clock skew from delay measures

Khelifi, H.; Gregoire, J.-C.;

Local Computer Networks, 2004. 29th Annual IEEE International Conference on , 16-18 Nov. 2004

Pages:144 - 151

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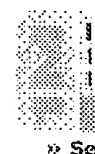
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